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WIRELESS COMMUNICATION OVER A TRANSDUCER DEVICE

ABSTRACT OF THE DISCLOSURE

One aspect of the present invention is generally directed towards a system and method of tuning a transducer
5 for transmitting and receiving a wireless signal. In an illustrative embodiment, a single transducer is coupled to a first or second circuit for either transmitting or receiving, respectively. Generally, electrical characteristics of the first circuit are adjusted to
10 increase a magnetic field generated by the transducer. Conversely, electrical characteristics of the second circuit are adjusted to increase a signal generated by the transducer for receiving a magnetic field. Accordingly, a single transducer device can be tuned for either
15 transmitting or receiving a corresponding wireless signal.